

CH12 High Efficiency Series

12 SEER Remote Heat Pump Units



PERFORMANCE:

Efficiency rating of 12.0 SEER

Cooling capacities from 1½ to 5 tons

Rated in accordance with D.O.E. test standards

FEATURES:

Quiet, top air discharge

G-90 galvanized steel exterior cabinet with 1000-hour salt spray, powder-coated finish

Long-life copper tubes, aluminum fin refrigerant coils

State-of-the-art compressors

Powder-coated fan guard

Full louvered panel to protect coil

Large wrap-around coil surface

Control box located for easy access to electrical controls

Formed base with 2½" ground clearance

Factory-installed liquid line filter dryer

WARRANTY:

Limited 10-year warranty on compressor

Limited 5-year warranty on all parts

CH12 High Efficiency Series

MODEL SPECIFICATIONS

MODEL NUMBER	CH1218BBD1VF	CH1224BBD1VF	CH1230BBD1VF	CH1236CBD1VF	CH1236CBD3VF	CH1236CBD4VF
PERFORMANCE DATA						
NOMINAL COOLING BTU/H	18 000	23 000	28 600	34 000		
NOMINAL HEATING BTU/H	18 000	23 000	28 600	34 600		
SEER (COOLING) BTU/H-W	12.0	12.0	12.0	12.0		
CFM	650	800	950	1200		
VOLTS/HZ/PHASE	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/3	460/60/3
VOLTAGE RANGE	197-253	197-253	197-253	197-253	187-253	415-508
OPERATING CURRENT AMPS ①	8.9	11.3	12.5	15.8	13.2	6.9
MIN. WIRE AMPACITY	11.0	14.0	15.0	20.0	15.0	9.0
MAX. HACR BREAKER ②	15	20	25	30	25	15
COMPRESSOR DATA						
RLA	7.9	10.3	11.5	14.0	11.4	5.7
LRA	47	56	75	88	77	39
FAN DATA						
DIAMETER	18 INCH / 3 BLADE	18 INCH / 3 BLADE	18 INCH / 4 BLADE	22 INCH / 3 BLADE		22 INCH / 3 BLADE
MOTOR TYPE	PSC	PSC	PSC	PSC		PSC
HP (W) / FLA	1/6 / 1.0	1/6 / 1.0	1/5 / 1.8	1/4 / 2.2		1/4 / 1.2
RPM	1075	1075	1075	1075		1075
CFM	1800	1800	2400	3400		3400
OUTDOOR COIL						
TYPE	ENHANCED ALUMINUM PLATE FIN / RIFLED COPPER TUBE					
FACE AREA	9.8	9.8	12.0	14.7		
O.D. / F.P.I.-ROWS	3/8 / 18-1	3/8 / 18-1	3/8 / 18-1	3/8 / 18-1		
REFRIGERANT LINE CONNECTIONS (SERVICE VALVE PORT I.D.)						
LIQUID	3/8 ID	3/8 ID	3/8 ID	3/8 ID		
VAPOR	3/4 ID	3/4 ID	3/4 ID	3/4 ID		
WEIGHTS						
NET WEIGHT — lbs.	139	139	157	172		
SHIPPING WEIGHT — lbs.	146	146	163	179		

COOLING PERFORMANCE DATA MATCHING EVAPORATOR COIL

OUTDOOR UNIT MODEL*	CASED EVAPORATOR COIL④	RATINGS AT STANDARD CONDITIONS			COOLING DATA AT EXTENDED OUTDOOR AMBIENTS °F.M.B.T.U.H.								
		BTUH	SEER ③	CFM		80	85	90	95	100	105	110	115
CH1218BBD	E3009A	18 000	12	650	TOTAL	19 800	19 200	18 600	18 000	17 700	17 500	17 200	16 900
					SENSIBLE	15 400	15 000	14 500	14 000	13 800	13 700	13 400	13 200
CH1224BBD	E3009A	23 000	12	800	TOTAL	24 800	24 100	23 600	23 000	22 400	21 900	21 300	20 800
					SENSIBLE	19 300	18 800	18 400	17 900	17 500	17 000	16 600	16 200
CH1230BBD	E3612A	28 600	12	950	TOTAL	31 700	30 700	29 600	28 600	27 900	27 200	26 500	25 800
					SENSIBLE	24 700	23 900	23 000	22 300	21 800	21 200	20 700	20 100
CH1236CBD	E3618A	34 000	12	1200	TOTAL	39 000	38 000	37 000	36 000	35 100	34 300	33 400	32 500
					SENSIBLE	30 400	29 600	28 900	28 100	27 400	26 700	26 000	25 400
CH1242CBD	E4824A	41 500	12	1350	TOTAL	44 100	43 200	42 400	41 500	39 700	37 900	36 000	34 200
					SENSIBLE	34 400	33 700	33 100	32 400	31 000	29 600	28 100	26 700
CH1248CBD	E6037A	45 500	12	1450	TOTAL	48 400	47 500	46 500	45 500	44 500	43 500	42 500	41 500
					SENSIBLE	37 800	37 100	36 300	35 500	34 700	33 900	33 200	32 400
CH1260CBD	E6037B	54 000	12	1750	TOTAL	59 600	57 900	56 200	54 000	53 200	51 800	50 400	49 100
					SENSIBLE	46 500	45 200	43 800	42 100	41 500	40 400	39 300	38 300

*Basic model number only. See unit nomenclature on the last page for exact model number.

FOOTNOTES:

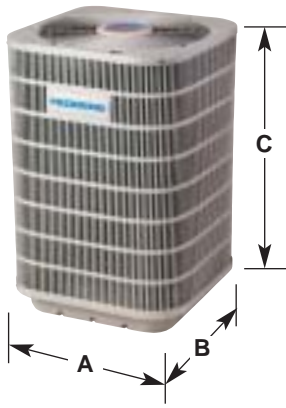
① Amps at 104°F OD temp. 80°F DB / 67°F WB indoor temp. ② Time delay type fuse for HACR Circuit Breaker. ③ Requires a time delay relay to achieve SEER ratings. ④ For indoor coils nomenclature see indoor coil specification sheet. ⑤ Air handler includes evaporator coil.

MODEL SPECIFICATIONS

MODEL NUMBER	CH1242CBD1VF	CH1248CBD1VF	CH1248CBD3VF	CH1248CBD4VF	CH1260CBD1VF	CH1260CBD3VF	CH1260CBD4VF
PERFORMANCE DATA							
NOMINAL COOLING BTU/H	41 500	45 500			54 000		
NOMINAL HEATING BTU/H	38 500	44 000			54 000		
SEER (COOLING) BTU/H-W	12.0	12.0			12.0		
CFM	1350	1450			1750		
VOLTS/HZ/PHASE	208-230/60/1	208-230/60/1	208-230/60/3	460/60/3	208-230/60/1	208-230/60/3	460/60/3
VOLTAGE RANGE	197-253	197-253	187-253	415-508	197-253	187-253	415-508
OPERATING CURRENT AMPS ①	19.5	23	16.1	8.4	25.7	20.4	10.3
MIN. WIRE AMPACITY	24.0	26.0	20.0	11.0	32.0	27.0	13.0
MAX. HACR BREAKER ②	40	40	30	15	50	45	20
COMPRESSOR DATA							
RLA	17.3	18.9	14.3	7.2	23.5	19.3	9.1
LRA	104	137	91	46	148	123	62
FAN DATA							
DIAMETER	22 INCH / 3 BLADE	22 INCH / 3 BLADE		22 INCH / 3 BLADE	22 INCH / 3 BLADE		22 INCH / 3 BLADE
MOTOR TYPE	PSC	PSC		PSC	PSC		PSC
HP (W) / FLA	1/4 / 2.2	1/4 / 2.2		1/4 / 1.2	1/4 / 2.2		1/4 / 1.2
RPM	1075	1075		1075	1075		1075
CFM	3400	3400		3400	3400		3400
OUTDOOR COIL							
TYPE	ENHANCED ALUMINUM PLATE FIN / RIFLED COPPER TUBE						
FACE AREA	18.3	22.0			22.0		
O.D. / F.P.I.-ROWS	3/8 / 18-1	3/8 / 18-1			3/8 / 12-1		
REFRIGERANT LINE CONNECTIONS (SERVICE VALVE PORT I.D.)							
LIQUID	3/8 ID	3/8 ID			3/8 ID		
VAPOR	3/4 ID	7/8 ID			7/8 ID		
WEIGHTS							
NET WEIGHT — lbs.	194	216			260		
SHIPPING WEIGHT — lbs.	203	226			278		

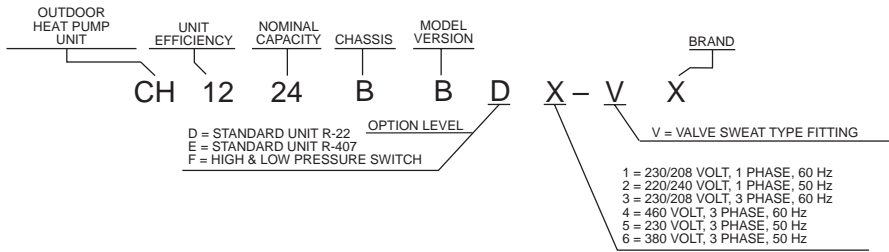
HEATING PERFORMANCE DATA MATCHING AIR HANDLER

OUTDOOR UNIT MODEL*	AIR HANDLER [®]	RATINGS AT STANDARD CONDITIONS			HEATING DATA AT EXTENDED OUTDOOR AMBIENTS °F.M.B.T.U.H.							
		BTUH	HSPF	CFM	-10	0	10	20	30	40	50	60
CH1218BBD	A24B1	18 000	8	650	5 800	7 800	9 700	11 700	13 600	16 000	18 900	21 700
CH1224BBD	A24B1	23 000	8	800	8 100	10 100	12 100	14 100	16 200	19 800	25 000	30 200
CH1230BBD	A30B1	28 600	8	950	11 800	14 100	16 400	18 700	21 000	25 300	31 700	38 100
CH1236CBD	A36B2	34 600	8	1200	14 200	17 100	20 000	22 900	25 800	30 300	36 500	42 600
CH1242CBD	A42B1	38 500	8	1350	17 100	20 200	23 300	26 400	29 600	34 200	40 300	46 500
CH1248CBD	A60B1	44 000	8	1450	19 400	23 200	27 100	31 000	34 900	40 200	47 000	53 900
CH1260CBD	A60B1	54 000	8	1750	28 800	31 100	34 400	35 700	38 000	45 300	57 700	70 100

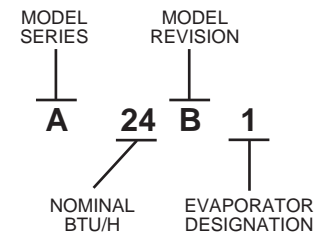


CONDENSER DIMENSIONS (INCHES)						
MODEL	UNIT			SHIPPING		
	A	B	C	A	B	C
CH1218BVF	21 ¹ / ₂	21 ¹ / ₂	26 ¹ / ₂	23 ¹ / ₂	23 ¹ / ₂	27
CH1224BVF	21 ¹ / ₂	21 ¹ / ₂	26 ¹ / ₂	23 ¹ / ₂	23 ¹ / ₂	27
CH1230BVF	21 ¹ / ₂	21 ¹ / ₂	32 ¹ / ₂	23 ¹ / ₂	23 ¹ / ₂	33
CH1236CVF	29 ¹ / ₂	29 ¹ / ₂	26 ¹ / ₂	23 ¹ / ₂	23 ¹ / ₂	33
CH1242CVF	29 ¹ / ₂	29 ¹ / ₂	32 ¹ / ₂	31 ¹ / ₂	31 ¹ / ₂	33
CH1248CVF	29 ¹ / ₂	29 ¹ / ₂	38 ¹ / ₂	31 ¹ / ₂	31 ¹ / ₂	39
CH1260CVF	29 ¹ / ₂	29 ¹ / ₂	38 ¹ / ₂	31 ¹ / ₂	31 ¹ / ₂	39

MODEL KEY: Residential & Light Commercial – Outdoor Unit



MODEL KEY: Air Handler



Fedders Unitary Products
 505 Martinsville Rd.
 Liberty Corner, NJ 07938
 (908) 604-8686
 Form No. F-CH12-0804



Rated in Accordance with ARI Standard 210/240.
 Certification Applies Only When Used with
 Proper Components as Listed with ARI.

All product specifications reflect available information at the printing of this brochure.
 Fedders reserves the right to revise or modify products and/or specifications without notice.
 ©2004 Fedders Unitary Products. Fedders is a registered trademark of Fedders North America, Inc.